

IN THE TITLE:

Please amend the title as follows:

~~-- METHOD FOR MEASURING CHEMICAL GROUPS ATTACHED TO~~
~~BIOLOGICAL MOLECULES~~ DIRECT PHOSPHORYLATION STATE MONITORING ON
BIOMOLECULES --

IN THE SPECIFICATION:

On page 8, amend the paragraph starting on line 26 to read:

– – Figure 1 shows the measured fluorescence lifetime of the fluorescent marker fluorescein, which is part of the tracer peptide (biomolecule), as a function of the enzyme concentration. Express reference is made here to the fact that no additional auxiliary molecule (such as an antibody or the like) had to be used to obtain these measurement results. Measurement was undertaken 30 minutes after the addition of the enzyme PTP1B to the tracer peptide. The fluorescence lifetime reflects the state of peptide phosphorylation, with higher enzyme concentrations working faster and producing more dephosphorylated peptide. ~~In contrast, the~~ The fluorescein bonded to the now dephosphorylated peptide exhibits a shorter lifetime. – –